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| <b>UTILITY</b><br><b>PATENT APPLICATION</b><br><b>TRANSMITTAL</b>  |   | <b>Attorney Docket No.</b> 55197-00016USPT  |
|--|---|---|
| <b>(Only for new nonprovisional applications under 37 CFR 1.53(b))</b>   |   | <b>First Inventor</b> Michael J. Puglia   |
| <b>Express Mail Label No.</b> EL831842365US, filed August 19, 2003   |   | <b>Title</b> Mixing in Microfluidic Devices   |
| <b>APPLICATION ELEMENTS</b>  |   |   |
| See MPEP chapter 600 concerning utility patent application contents.   |   | <b>ADDRESS TO:</b> Commissioner for Patents<br>Box Patent Application<br>Washington, DC 20231 |
| 1. <input checked="" type="checkbox"/> <b>Fee Transmittal Form</b><br><i>(Submit an original, and a duplicate for fee processing)</i><br>2. <input type="checkbox"/> <b>Applicant claims small entity status.</b><br>See 37 CFR 1.27.<br>3. <input checked="" type="checkbox"/> <b>Specification [Total Pages 34]</b><br><i>(preferred arrangement set forth below)</i><br>- Descriptive title of the Invention<br>- Cross References to Related Applications<br>- Statement Regarding Fed sponsored R & D Invention<br>- Reference to Microfiche Appendix<br>- Background of the Invention<br>- Brief Summary of the Invention<br>- Brief Description of the Drawings <i>(if filed)</i><br>- Detailed Description<br>- Claim(s)<br>- Abstract of the Disclosure<br>4. <input checked="" type="checkbox"/> <b>Drawing(s) (35 USC 113)</b> [Total Sheets 2]<br>5. <input checked="" type="checkbox"/> <b>Oath or Declaration</b> [Total Pages 4]<br>a. <input checked="" type="checkbox"/> Newly executed (original or copy)<br>b. <input type="checkbox"/> Copy from a prior application (37 CFR 1.63(d))<br><i>(for continuation/divisional with Box 17 completed)</i><br>i. <input type="checkbox"/> <b>DELETION OF INVENTOR(S)</b><br>Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).<br>6. <input type="checkbox"/> <b>Application Data Sheet.</b> See 37 CFR 1.76 | 7. <input type="checkbox"/> CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)<br>8. <b>Nucleotide and/or Amino Acid Sequence Submission</b><br><i>(if applicable, all necessary)</i><br>a. <input type="checkbox"/> Computer Readable Form (CRF)<br>b. <input type="checkbox"/> Specification Sequence Listing on:<br>i. <input type="checkbox"/> CD ROM or CD-R (2 copies); or<br>ii. <input type="checkbox"/> paper<br>c. <input type="checkbox"/> Statement verifying identity of above copies<br><b>Accompanying Application Parts</b><br>9. <input type="checkbox"/> Assignment Papers (cover sheet & document(s))<br>10. <input type="checkbox"/> 37 CFR 3.73(b) Statement <input type="checkbox"/> Power of Attorney<br><i>(when there is an assignee)</i><br>11. <input type="checkbox"/> English Translation Document <i>(if applicable)</i><br>12. <input type="checkbox"/> Information Disclosure <input type="checkbox"/> Copies of IDS<br>Statement (IDS)/PTO-1449 Citations<br>13. <input type="checkbox"/> Preliminary Amendment<br>14. <input checked="" type="checkbox"/> <b>Return Receipt Postcard (MPEP 503)</b><br><i>(Should be specifically itemized)</i><br>15. <input type="checkbox"/> <b>Certified Copy of Priority Document(s)</b><br><i>(if foreign priority is claimed)</i><br>16. <input checked="" type="checkbox"/> <b>Other</b> Check for \$1,092.00. |   |
| <b>17. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:</b><br><input type="checkbox"/> Continuation <input type="checkbox"/> Divisional <input type="checkbox"/> Continuation-in-part (CIP) of prior application No. _____, filed _____<br>Prior application Information: Examiner _____ Group/Art Unit: _____<br>For CONTINUING OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.  |   |   |
| <b>18. CORRESPONDENCE ADDRESS</b><br><div style="text-align: center; border: 1px solid black; padding: 2px; margin: 5px auto; width: 100px;">30223</div> <input type="checkbox"/> Customer Number or Bar Code Label <span style="margin-left: 100px;"><i>(Insert Customer No. or Attach bar code label here)</i></span> or <input type="checkbox"/> New correspondence address below   |   |   |
| <b>NAME</b>  | Harold N. Wells   |   |
| <b>ADDRESS</b>   | Jenkins & Gilchrist   |   |
| <b>CITY</b>  | Chicago   | <b>STATE</b> IL   |
| <b>COUNTRY</b>   | USA   | <b>ZIP CODE</b> 60606-3418  |
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| <b>Name (Print/Type)</b>   | Harold N. Wells   | <b>Registration No. (Attorney/Agent)</b> 26,044   |
| <b>Signature</b>   | Date August 19, 2003<br>  |   |

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Mail Stop Patent Application, P.O. Box 1450, Alexandria, VA. 22313-1450.



17698 U.S. PTO

# FEE TRANSMITTAL

## Complete if Known

|                        |                   |
|------------------------|-------------------|
| Application Number     | Not Assigned      |
| Filing Date            | August 19, 2003   |
| First Named Inventor   | Michael J. Puglia |
| Group Art Unit         | Not Assigned      |
| Examiner Name          | Not Assigned      |
| Attorney Docket Number | 55197-000016USPT  |

TOTAL AMOUNT OF PAYMENT (\$1,092.00)

## METHOD OF PAYMENT (check one)

1. ☒ The Commissioner is hereby authorized to charge indicated fees and credit any over payments to:

Deposit Account Number 10-0447/55197-000016USPT

Deposit Account Name Jenkins & Gilchrist

- ☒ Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17 ☐ Charge the Issue Fee Set in 37 CFR 1.18 at the Mailing of the Notice of Allowance, 37 CFR 1.31(b)

## 2. ☒ Payment Enclosed:

- ☒ Check ☐ Money Order ☐ Other

## FEE CALCULATION (fees effective 11/10/98)

### 1. FILING FEE

| Large Entity | Fee Code | Fee (\$) | Small Entity | Fee Code | Fee (\$) | Fee Description        | Fee Paid        |
|--------------|----------|----------|--------------|----------|----------|------------------------|-----------------|
| 101          | 740      | 201      | 370          |          |          | Utility filing fee     | <u>750</u>      |
| 106          | 330      | 206      | 165          |          |          | Design filing fee      |                 |
| 107          | 510      | 207      | 255          |          |          | Plant filing fee       |                 |
| 108          | 740      | 208      | 370          |          |          | Reissue filing fee     |                 |
| 114          | 160      | 214      | 80           |          |          | Provisional filing fee |                 |
| SUBTOTAL (1) |          |          |              |          |          |                        | <u>(\$ 750)</u> |

### 2. CLAIMS

| Large Entity  | Fee Code | Fee (\$) | Small Entity | Fee Code | Fee (\$) | Fee Description   | Fee Paid             |
|---|----------|----------|--------------|----------|----------|---|----------------------|
| Total Claims <u>39</u> - 20 = <u>19</u> X <u>18</u> = <u>\$342.00</u> |          |          |              |          |          |   |                      |
| Independent <u>2</u> - 3 = <u>0</u> X <u>84</u> = <u>\$0.00</u>       |          |          |              |          |          |   |                      |
| Multiple Dependent Claims <u>0</u> X <u>280</u> = <u>\$0</u>          |          |          |              |          |          |   |                      |
| 103   | 18       | 203      | 9            |          |          | Claims in excess of 20                                  |                      |
| 102   | 84       | 202      | 42           |          |          | Independent claims in excess of 3                       |                      |
| 104   | 280      | 204      | 140          |          |          | Multiple dependent claim                                |                      |
| 109   | 84       | 209      | 42           |          |          | Reissue independent claims over original patent         |                      |
| 110   | 18       | 210      | 9            |          |          | Reissue claims in excess of 20 and over original patent |                      |
| SUBTOTAL (2)  |          |          |              |          |          |   | <u>(\$ 1,092.00)</u> |

### 3. ADDITIONAL FEES

| Large Entity              | Fee Code | Fee (\$) | Small Entity | Fee Code | Fee (\$) | Fee Description  | Fee Paid          |
|---------------------------|----------|----------|--------------|----------|----------|--|-------------------|
| 105                       | 130      | 205      | 65           |          |          | Surcharge - late filing fee or oath  |                   |
| 127                       | 50       | 227      | 25           |          |          | Surcharge - late provisional filing or cover sheet                         |                   |
| 139                       | 130      | 139      | 130          |          |          | Non-English specification  |                   |
| 147                       | 2,520    | 147      | 2,520        |          |          | For filing a request for reexamination                                     |                   |
| 112                       | 920      | 112      | 920          |          |          | Requesting publication of SIR prior to Examiner action                     |                   |
| 113                       | 1,840    | 113      | 1,840        |          |          | Requesting publication of SIR after Examiner action                        |                   |
| 115                       | 110      | 215      | 55           |          |          | Extension for response within first month                                  |                   |
| 116                       | 400      | 216      | 200          |          |          | Extension for response within second month                                 |                   |
| 117                       | 920      | 217      | 460          |          |          | Extension for response within third month                                  |                   |
| 118                       | 1,440    | 218      | 720          |          |          | Extension for response within fourth month                                 |                   |
| 119                       | 310      | 219      | 155          |          |          | Notice of Appeal   |                   |
| 120                       | 320      | 220      | 160          |          |          | Filing a brief in support of an appeal                                     |                   |
| 121                       | 280      | 221      | 140          |          |          | Request for oral hearing   |                   |
| 138                       | 1,510    | 138      | 1,510        |          |          | Petition to institute a public use proceeding                              |                   |
| 140                       | 110      | 240      | 55           |          |          | Petition to revive unavoidably abandoned application                       |                   |
| 141                       | 1,280    | 241      | 640          |          |          | Petition to revive unintentionally abandoned application                   |                   |
| 142                       | 1,280    | 242      | 640          |          |          | Utility issue fee (or reissue)   |                   |
| 143                       | 460      | 243      | 230          |          |          | Design issue fee   |                   |
| 144                       | 620      | 244      | 310          |          |          | Plant issue fee  |                   |
| 122                       | 130      | 122      | 130          |          |          | Petitions to the Commissioner  |                   |
| 123                       | 50       | 123      | 50           |          |          | Petitions related to provisional applications                              |                   |
| 126                       | 180      | 126      | 180          |          |          | Submission of Information Disclosure Sheet                                 |                   |
| 581                       | 40       | 581      | 40           |          |          | Recording each patent assignment per property (times number of properties) |                   |
| 146                       | 740      | 246      | 370          |          |          | Filing a submission after final rejection (37 CFR 1.129(a))                |                   |
| 149                       | 740      | 249      | 370          |          |          | For each additional invention to be examined (37 CFR 1.129(b))             |                   |
| Other fee (specify) _____ |          |          |              |          |          |  |                   |
| Other fee (specify) _____ |          |          |              |          |          |  |                   |
| SUBTOTAL (3)              |          |          |              |          |          |  | <u>(\$ _____)</u> |

\* Reduced by Basic Filing Fee Paid

|                       |                        |                          |                         |
|-----------------------|------------------------|--------------------------|-------------------------|
| SUBMITTED BY          |                        | Complete (if applicable) |                         |
| Typed or Printed Name | Harold N. Wells        | Reg. Number              | 26,044                  |
| Signature             | <i>Harold N. Wells</i> | Date                     | 8/19/03                 |
|                       |                        | Deposit Act. User ID     | 10-0447/55197-00016USPT |